QC ABSTRACT

NAME OF WORK: Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	51.7	10	10

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BBMP, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-29-58** **Date: 15-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-29-58** **Date: 13-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-29-58** **Date: 15-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-02-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-29-58** **Date: 15-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.39	–
5	Bulk Density(Compacted) (Kg/l)	1.46	–
6	Water Absorption(%)	0.22	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-29-58** **Date: 14-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	195	195	3.9	96.1	90-100
3	10 mm	2714	2909	58.2	41.8	25-55
4	4.75 mm	1988	4897	97.9	2.1	0-10
5	Pan	103	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-29-58** **Date: 14-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-03-29-58** **Date: 14-02-21**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-03-29-58** **Date: 14-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-03-29-58** **Date: 24-02-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-21
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	22-02-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	151	202	12201	33.924	2780.4	2702.7	Not less than 1800Kg/m^3
2	400	151	201	12140	32.121	2645.8		
3	404	148	200	11958	32.072	2681.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2021-03-29-58** **Date: 24-02-21**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	151	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	151	201	
3	399	150	201	
4	400	150	202	
5	401	151	201	
6	401	152	199	
7	400	152	199	
8	404	153	199	
9	400	150	199	
10	399	150	199	
11	401	152	200	
12	403	152	200	
13	402	153	203	
14	404	151	199	
15	401	152	199	
16	403	150	202	
17	399	152	200	
18	404	151	200	
19	400	151	203	
20	402	149	199	
Average of 20	**401**	**151**	**200**	

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Lab ID : **CP-2021-03-29-58** **Date: 24-02-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	151	60334	269.5	4.5	4.4
2	402	151	60690	270.4	4.5	
3	399	150	59743	262.1	4.4	
4	400	150	59857	265.0	4.4	
5	401	151	60785	266.4	4.4	
6	401	152	60842	266.1	4.4	
7	400	152	60692	263.1	4.3	
8	404	153	61628	266.8	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-03-29-58** **Date: 01-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	25/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2021-03-29-58** **Date: 01-03-21**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-21
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	25/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	232.3	7.4	6.8	8.6
3	Cover Slab-3	200.50	250.51	3.118	31567	231.5	7.3	6.8	8.5

* The results obtained are satisfactory as per standard requirements.

Note:

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 27/02/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-21

Customer ID : Culvert Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Coping Concrete	M15	20/02/2021	27/02/2021	149.67 X 150.23 X 151.06	22484	**8.114**	287.3	12.8	12.6
2	Culvert Coping Concrete	M15	20/02/2021	27/02/2021	149.67 X 149.45 X 149.37	22369	**8.322**	288.1	12.9	
3	Culvert Coping Concrete	M15	20/02/2021	27/02/2021	151.12 X 149.81 X 150.58	22639	**8.777**	275.7	12.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 20/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-21

Customer ID : Culvert Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Coping Concrete	M15	20/02/2021	20/03/2021	151.11 X 151.18 X 151.22	22845	**8.854**	393.9	17.2	17.2
2	Culvert Coping Concrete	M15	20/02/2021	20/03/2021	151.80 X 149.13 X 150.42	22638	**8.481**	390.0	17.2	
3	Culvert Coping Concrete	M15	20/02/2021	20/03/2021	150.89 X 150.01 X 150.60	22636	**8.879**	384.9	17.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 02/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-21

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	23/02/2021	02/03/2021	151.66 X 149.57 X 151.92	22683	**8.114**	293.9	13.0	12.6
2	Vent Concrete	M15	23/02/2021	02/03/2021	150.13 X 151.17 X 151.14	22696	**8.322**	275.2	12.1	
3	Vent Concrete	M15	23/02/2021	02/03/2021	150.47 X 150.58 X 150.93	22659	**8.777**	285.1	12.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 23/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-21

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	23/02/2021	23/03/2021	151.63 X 151.23 X 150.60	22932	**8.854**	405.0	17.7	17.6
2	Vent Concrete	M15	23/02/2021	23/03/2021	150.63 X 150.52 X 150.23	22673	**8.481**	396.2	17.5	
3	Vent Concrete	M15	23/02/2021	23/03/2021	151.36 X 150.08 X 149.69	22716	**8.879**	400.5	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 02/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-21

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	23/02/2021	02/03/2021	149.04 X 151.45 X 151.69	22573	**8.114**	280.5	12.4	12.5
2	Vent Concrete	M15	23/02/2021	02/03/2021	150.44 X 150.09 X 150.79	22579	**8.322**	281.5	12.5	
3	Vent Concrete	M15	23/02/2021	02/03/2021	151.47 X 149.38 X 149.69	22627	**8.777**	288.2	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 23/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-21

Customer ID : Vent Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Vent Concrete	M15	23/02/2021	23/03/2021	150.80 X 150.87 X 150.95	22752	**8.854**	407.4	17.9	17.6
2	Vent Concrete	M15	23/02/2021	23/03/2021	150.03 X 151.03 X 150.81	22658	**8.481**	392.4	17.3	
3	Vent Concrete	M15	23/02/2021	23/03/2021	149.61 X 150.44 X 151.34	22508	**8.879**	394.5	17.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 05/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-21

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	26/02/2021	05/03/2021	150.44 X 149.70 X 150.46	22521	**8.114**	271.5	12.1	12.3
2	Copping Concrete	M15	26/02/2021	05/03/2021	149.38 X 150.54 X 151.24	22488	**8.322**	275.5	12.3	
3	Copping Concrete	M15	26/02/2021	05/03/2021	150.96 X 150.13 X 149.21	22663	**8.777**	283.4	12.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-29-58** **Date: 26/03/2021**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division

Agency : M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073

Customer's Reference : BBMP/EE/BTP/WO/166/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-03-21

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	26/02/2021	26/03/2021	149.79 X 150.05 X 149.50	22476	8.854	402.0	17.9	17.5
2	Copping Concrete	M15	26/02/2021	26/03/2021	150.31 X 149.58 X 149.59	22482	8.481	390.6	17.4	
3	Copping Concrete	M15	26/02/2021	26/03/2021	150.39 X 151.26 X 149.23	22748	8.879	392.9	17.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-29-58** **Date: 08/03/2021**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Roads Drains and Providing Covering Slabs at Hosabalunagar Kuvempunagara 1st and 2nd Stage in Ward No 11 Kuvempunagara in Vidyaranyapura Sub Division
Agency	:	M/s Sri. Channakeshawa Enterprises, Prop.Kiran Gowda D, No:882, 2nd Floor, Monika Nilaya, 13th Cross, Havanoor Extn, Nagasandra Post, Bangalore-560073
Customer's Reference	:	BBMP/EE/BTP/WO/166/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-21
Customer ID	:	Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ramp Concrete	M15	01/03/2021	08/03/2021	150.70 X 149.27 X 151.51	22495	**8.114**	285.5	12.7	12.6
2	Ramp Concrete	M15	01/03/2021	08/03/2021	151.31 X 150.14 X 149.51	22718	**8.322**	288.7	12.7	
3	Ramp Concrete	M15	01/03/2021	08/03/2021	149.78 X 151.85 X 150.66	22744	**8.777**	280.1	12.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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